

# SEQUENCE LISTING

<110> Chew, Anne  
 Denton, R. Rex  
 Bieglecki, Karyn M  
 Nandabalan, Krishnan  
 Stephens, J. Claiborne

<120> HAPLOTYPES OF THE TNFRSF11B GENE

<130> TNFRSF11B\_MWH-0001US (CIP)

<140> TBA  
 <141> 2002-01-09

<150> PCT/US00/18803  
 <151> 2000-07-10

<160> 94

<170> PatentIn version 3.1

<210> 1  
 <211> 11408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> allele  
 <222> (504)..(504)  
 <223> PS1: polymorphic base G or T

<220>  
 <221> allele  
 <222> (717)..(717)  
 <223> PS2: polymorphic base C or T

<220>  
 <221> allele  
 <222> (744)..(744)  
 <223> PS3: polymorphic base G or T

<220>  
 <221> allele  
 <222> (778)..(778)  
 <223> PS4: polymorphic base T or C

<220>  
 <221> allele  
 <222> (1009)..(1009)  
 <223> PS5: polymorphic base G or C

<220>  
 <221> allele  
 <222> (1045)..(1045)  
 <223> PS6: polymorphic base C or T

<220>  
<221> allele  
<222> (1122)..(1122)  
<223> PS7: polymorphic base G or A

<220>  
<221> allele  
<222> (1218)..(1218)  
<223> PS8: polymorphic base C or A

<220>  
<221> misc\_feature  
<222> (1501)..(1550)  
<223> Sequence undetermined between contigs

<220>  
<221> allele  
<222> (2014)..(2014)  
<223> PS9: polymorphic base C or T

<220>  
<221> allele  
<222> (2177)..(2177)  
<223> PS10: polymorphic base T or C

<220>  
<221> allele  
<222> (5906)..(5906)  
<223> PS11: polymorphic base T or C

<220>  
<221> allele  
<222> (6010)..(6010)  
<223> PS12: polymorphic base C or T

<220>  
<221> allele  
<222> (8110)..(8110)  
<223> PS13: polymorphic base G or A

<220>  
<221> allele  
<222> (8333)..(8333)  
<223> PS14: polymorphic base C or T

<220>  
<221> allele  
<222> (8354)..(8354)  
<223> PS15: polymorphic base A or G

<220>  
<221> allele  
<222> (8402)..(8402)  
<223> PS16: polymorphic base A or G

<220>

<221> allele  
 <222> (8459)..(8459)  
 <223> PS17: polymorphic base A or C

<220>  
 <221> allele  
 <222> (10203)..(10203)  
 <223> PS18: polymorphic base G or

<220>  
 <221> allele  
 <222> (10512)..(10512)  
 <223> PS19: polymorphic base T or C

<400> 1  
 acagcgaacc ctagagcaaa gtgccaaact totgtcgata gcttgaggct agtggaaaga 60  
 cctcgaggag gctactccag aagttcagcg cgtaggaagc tccgatacca atagcccttt 120  
 gatgatggtg gggttggtga agggaacagt gctccgcaag gttatccctg cccagggcag 180  
 tccaattttc actctgcaga ttctctctgg ctctaactac cccagataac aaggagtga 240  
 tgcagaatag cacgggcttt agggccaatc agacattagt tagaaaaatt cctactacat 300  
 ggtttatgta aacttgaaga tgaatgattg cgaactcccc gaaaagggct cagacaatgc 360  
 catgcataaa gaggggcccct gtaatttgag gtttcagaac ccgaagtga ggggtcaggc 420  
 agccgggtac ggcggaact cacagctttc gccagcgag aggacaaagg tctgggacac 480  
 actccaactg cgtccggatc ttgkctggat cggactctca ggggtggagga gacacaagca 540  
 cagcagctgc ccagcgtgtg cccagccctc ccacogctgg tcccggtgc caggaggctg 600  
 gccgctggcg ggaaggggccc gggaaacctc agagccccgc ggagacagca gccgccttgt 660  
 tcctcagccc ggtggctttt ttttccctg ctctcccagg ggacagacac caccgcycca 720  
 cccctcacgc cccacctccc tggkkgatcc tttccgcccc agccctgaaa gcgttaaycc 780  
 tggagctttc tgcacacccc ccgacogctc ccgcccagc ttcctaaaaa agaaagggtgc 840  
 aaagtttggt ccaggataga aaaatgactg atcaaaggca ggcgatactt cctgttgccg 900  
 ggacgtata tataacgtga tgagcgcacg ggctgcggag acgcaccgga gcgctcgccc 960  
 agccgccgcc tccaagcccc tgaggtttcc ggggaccaca atgaacaast tgctgtgctg 1020  
 cgcgctcgtg gtaagtccct gggcyagccg acgggtgccc ggcgccctggg gaggtgctg 1080  
 ccacctggtc tccaacctc ccagcggacc ggcggggaga argctccact cgctccctcc 1140  
 caggagaggt ttgggggttag gctggagcag gaaaccgctt tcaagttatg ccatgcttcc 1200  
 cctagctgtt ccttttamgc tgcaaagtcc ctgctgactt tatggaagac agcaagagag 1260  
 agacagacag cgagagagag ggagagagag agagagagaa acttgtttga aagttttagt 1320  
 cattaacctt ctgtcttcat ctcagaatat taacgcctc atgtagtcca tactatcttt 1380  
 gcttaatgaa cttgaacttt tattattagt ggcaaagaag tggctccctta gattcagagt 1440  
 aagttggaag aagacgttag tcttcttaaa accattataa ttagaatatg acatgataga 1500  
 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN caggactttg 1560  
 agtcaaatga tactgttgca cataagaaca aacctatttt catgctaaga tgatgccact 1620  
 gtgttccttt ctccctctag tttctggaca tctccattaa gtggaccacc caggaaacgt 1680  
 ttccctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg tgtgacaaat 1740  
 gtccctcctg tacctacctt aaacaacact gtacagcaaa gtggaagacc gtgtgcgccc 1800  
 cttgcctga ccaactactac acagacagct ggcacaccag tgacgagtgt ctatactgca 1860  
 gccccgtgtg caaggagctg cagtacgtca agcaggagtg caatcgcacc cacaaccgcg 1920  
 tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa cataggagct 1980  
 gccctcctgg atttgagtg gtgcaagctg gtaygtgtca atgtgcagca aaattaatta 2040  
 ggatcatgca aagtcagata gttgtgacag tttaggagaa cacttttggt ctgatgacat 2100  
 tataggatag caaattgcaa aggtaatgaa acctgccagg taggtactat gtgtctggag 2160  
 tgcttccaaa ggaccaytgc tcagaggaat actttgccac tacagggcaa tttaatgaca 2220  
 aatctcaaat gcagcaaatt attctctcat gagatgcatt atgggttttt tttttttttt 2280  
 taaagaaaca aactcaagtt gcactattga tagttgatct atacctctat atttcacttc 2340  
 agcatggaca ccttcaaact gcagcacttt ttgacaaaca tcagaaatgt taatttatac 2400  
 caagagagta attatgctca tattaatgag actctggagt gctaacaata agcagttata 2460  
 attaattatg taaaaaatga gaatggtgag gggaattgca tttcattatt aaaaacaagg 2520

ctagtctcttc	cttttagcatg	ggagctgagt	gtttggggagg	gtaaggacta	tagcagaatc	2580
tcttcaatga	gcttattctt	tatcttagac	aaaacagatt	gtcaagccaa	gagcaagcac	2640
ttgcctataa	accaagtget	ttctcttttg	cattttgaac	agcattgggtc	agggctcatg	2700
tgtattgaat	cttttaaac	agtaaccac	gttttttttc	tgccacattt	gcgaagcttc	2760
agtgcagcct	ataacttttc	atagcttgag	aaaattaaga	gtatccactt	acttagatgg	2820
aagaagtaat	cagtatagat	tctgatgact	cagtttgaag	cagtgtttct	caactgaagc	2880
cctgctgata	ttttaagaaa	tatctggatt	cctaggctgg	actccttttt	gtgggcagct	2940
gtcctgcgca	ttgtagaatt	ttggcagcac	ccctggactc	tagccactag	ataccaatag	3000
cagtccttcc	cccatgtgac	agccaaaaat	gtcttcagac	actgtcaa	gtcgccaggt	3060
ggcaaaatca	ctcctggttg	agaacagggt	catcaatgct	aagtatctgt	aactatttta	3120
actctcaaaa	cttgtgatat	acaaagtcta	aattattaga	cgaccaatac	tttaggttta	3180
aaggcataca	aatgaaacat	tcaaaaatca	aaatctattc	tgtttctcaa	atagtgaatc	3240
ttataaaatt	aatcacagaa	gatgcaaatt	gcacagaggt	cccttaaaat	tcctcttcgt	3300
atgagtattt	gagggaggaa	ttggtgatag	ttcctacttt	ctattggatg	gtactttgag	3360
actcaaaagc	taagctaagt	tgtgtgtgtg	tcagggtgcg	gggtgtggaa	tcccatcaga	3420
taaaagcaaa	tccatgtaat	tcattcagta	agttgtatat	gtagaaaaat	gaaaagtggg	3480
ctatgcagct	tggaacttag	agaattttga	aaaataatgg	aaatcacaag	gatctttctt	3540
aaataagtaa	gaaaactctgt	ttgtagaatg	aagcaagcag	gcagccagaa	gactcagaac	3600
aaaagtacac	attttactct	gtgtacactg	gcagcacagt	gggatttatt	taacctctcc	3660
tcctcaaaaa	ccacacacgc	ggttcctctt	gggaaataag	aggtttccag	cccaaagaga	3720
aggaaagact	atgtggtggt	actctaaaaa	gtatttaata	accgttttgt	tggtgtgtgt	3780
gctgttttga	aatcagattg	tctctctctc	atattttatt	tacttcattc	tggttaattcc	3840
tgtggaatta	cttagagcaa	gcattggtgaa	ttctcaactg	taaagccaaa	tttctccatc	3900
attataattt	cacattttgc	ctggcaggtt	ataattttta	tatttccact	gatagtaata	3960
aggtaaaatc	attacttaga	tggatagatc	tttttcataa	aaagtaccat	cagttataga	4020
gggaagtcac	gttcatgttc	aggaaagtc	ttagataaag	cttctgaata	tattatgaaa	4080
cattagttct	gtcattctta	gattcttttt	gttaataaac	tttaaaagct	aacttaccta	4140
aaagaaatat	ctgacacata	tgaacttctc	attaggatgc	aggagaagac	ccaagccaca	4200
gatattgtatc	tgaagaatga	acaagattct	taggcccggc	acggtgggtc	acatctgtaa	4260
totcaagagt	ttgagaggtc	aaggcgggca	gatcacctga	ggtcaggagt	tcaagaccag	4320
cctggccaac	atgatgaaac	cctgctctta	ctaaaaatac	aaaaattagc	agggcatggt	4380
ggtgcatgcc	tgcaacccta	gctactcagg	aggctgagac	aggagaatct	cttgaaccct	4440
cgaggcggag	gttgtggtga	gctgagatcc	ctctactgca	ctccagcctg	ggtgacagag	4500
atgagactcc	gtccctgcgc	cgcgcccgcc	cttccccccc	aaaaagattc	ttcttcatgc	4560
agaacatacg	gcagtcaaca	aaggagagcc	tgggtccagg	tgtccaagtc	acttatttgc	4620
agtaaatagg	caatgaaaga	atgccatgga	atccctgcc	aaatacctct	gcttatgata	4680
ttgtagaatt	tgatatagag	ttgtatccca	tttaaggagt	aggatgtagt	aggaaagtac	4740
taaaaacaaa	cacacaaaca	gaaaaccctc	tttgctttgt	aagggtggtc	ctaagataat	4800
gtcagtgcac	tgctggaaat	aatattttaat	atgtgaaggt	tttaggctgt	gttttccctt	4860
cctgttcttt	ttttctgcca	gccctttgtc	atttttgcag	gtcaatgaat	catgtagaaa	4920
gagacaggag	atgaaactag	aaccagtcca	ttttgcccct	ttttttattt	totgggtttg	4980
gtaaaagata	caatgaggta	ggaggttgag	atttataaat	gaagtttaat	aagtttctgt	5040
agctttgatt	tttctctttc	atatttggtt	tcttgcataa	gccagaattg	gcctgtaaaa	5100
tctacatatg	gatattgaag	tctaaatctg	ttcaactagc	ttacactaga	tgagatattt	5160
ttcatattca	gatacactgg	aatgtatgat	ctagccatgc	gtaatatagt	caagtgtttg	5220
aaggatttta	tttttaatat	cgtcttttagt	tgtggactgg	ttcaagtttt	tctgccaatg	5280
atttcttcaa	atttatcaaa	tatttttcca	tcattgaagta	aaatgccctt	gcagtcaccc	5340
ttcctgaagt	ttgaacgact	ctgctgtttt	aaacagttta	agcaaatggt	atatcatctt	5400
cogtttaact	tgtagcttaa	ctgcaggctt	acgcttttga	gtcagcggtc	aactttattg	5460
ccaccttcaa	aagttttatta	taattgttga	aatttttact	tctcaaggtt	agcatactta	5520
ggagttgctt	cacaattagg	attcaggaaa	gaaagaactt	cagtaggaac	tgattggaat	5580
ttaatgatgc	agcattcaat	gggtactaat	ttcaagaagt	gatattacag	cagacacaca	5640
gcagttatct	tgatttttcta	ggaataattg	tatgaagaat	atggctgaca	acacggcctt	5700
actgccactc	agcggagggt	ggactaatga	acaccctacc	cttctttcct	ttcctctcac	5760
atttcatgag	cgtttttagt	gtaacgagaa	aattgacttg	catttgcatt	acaaggagga	5820
gaaactggca	aaggggatga	tggtggaagt	tttgttctgt	ctaataaggt	gaaaaatgaa	5880
aatgctagag	ttttgtgcaa	cataayagta	gcagtaaaaa	ccaagtgaat	agtctttcca	5940

aaactgtggtt	aagaggggcat	ctgctgggaa	acgattttgag	gagaaggtac	taaattgctt	6000
ggtattttcty	gtaggaaccc	cagagcgaaa	tacagtttgc	aaaagatgtc	cagatgggtt	6060
cttctcaaat	gagacgtcat	ctaaagcacc	ctgtagaaaa	cacacaaatt	gcagtgtctt	6120
tgggtctcctg	ctaactcaga	aaggaaatgc	aacacacgac	aacatatgtt	ccggaaacag	6180
tgaatcaact	caaaaatgtg	gaataggtaa	ttacattcca	aaatacgtct	ttgtacgatt	6240
ttgtagtata	atctctctct	ctgagttgaa	cacaaggcct	ccagccacat	tcttgggtcaa	6300
acttacattt	tcccttttctt	gaatcttaac	cagctaaggc	tactctcgat	gcattactgc	6360
taaaagctacc	actcagaatc	tctcaaaaac	tcattcttct	acagataaca	cctcaaagct	6420
tgatttttctc	tccctttcaca	ctgaaatcaa	atcttgccca	taggcaaagg	gcagtgtcaa	6480
gttttgccact	gagatgaaat	taggagagtc	caaactgtag	aattcacgtt	gtgtgttatt	6540
actttcacga	atgtctgtat	tattaaactaa	agtatatatt	ggcaactaag	aagcaaagtg	6600
atataaacat	gatgacaaat	taggccaggc	atggttggtt	actcctataa	tcccaacatt	6660
ttgggggggccc	aaggtaggca	gatcacttga	ggtcaggatt	tcaagaccag	cctgaccaac	6720
atggtgaaac	cttgtctcta	ctaaaaatac	aaaaattagc	tgggcatggt	agcaggcact	6780
tctagtacca	gctactcagg	gctgaggcag	gagaatcgct	tgaaccagg	agatggagggt	6840
tgcagtgagc	tgagattgta	ccactgcact	ccagtctggg	caacagagca	agattttcatc	6900
acacacacac	acacacacac	acacacacac	attagaaatg	tgtacttggc	tttggttacct	6960
atggtattag	tgcatctatt	gcatggaact	tccaagctac	tctggttggt	ttaaagctctt	7020
cattgggtac	aggctcactg	tattaaagttc	aggttattcg	gatgcattcc	acggtagtga	7080
tgacaattca	tcaggctagt	gtgtgtgttc	acctgtgcac	tcccaccact	agactaatct	7140
cagaccttca	ctcaaagaca	cattacaacta	aagatgattt	gcttttttgt	gtttaatcaa	7200
gcaatgggtat	aaaccagctt	gactctcccc	aaacagtttt	tcgtactaca	aagaagttaa	7260
tgaagcagag	aaatgtgaat	tgatatatat	atgagattct	aaccagttc	cagcattggt	7320
tcattgtgta	attgaaatca	tagacaagcc	atttttagcct	ttgctttctt	atctaaaaaa	7380
aaaaaaaaaa	aaatgaagga	aggggtatta	aaaggagtga	tcaaatttta	acattctctt	7440
taattaattc	atttttaatt	ttactttttt	tcattttattg	tgactttact	atgtgggtact	7500
gtgctataga	ggctttaaca	tttataaaaa	cactgtgaaa	gttgcttcag	atgaatatag	7560
gtagtagaac	ggcagaacta	gtattcaaaag	ccagggtctga	tgaatccaaa	aacaaacacc	7620
cattactccc	attttctggg	acatacttac	tctacccaga	tgctctgggc	tttgtaatgc	7680
ctatgtaaat	aacatagttt	tatgtttggt	tattttccta	tgtaatgtct	acttatatat	7740
ctgtatctat	ctcttgcttt	gtttccaaaag	gtaaaactatg	tgtctaaatg	tgggcaaaaa	7800
ataacacaact	attccaaatt	actgttcaaa	ttcctttaag	tcagtgataa	ttatttggtt	7860
tgacattaat	catgaagttc	cctgtgggta	ctaggtaaac	ctttaataga	atgttaatgt	7920
ttgtattcat	tataagaatt	tttggctgtt	acttattttac	aacaatattt	cactctaatt	7980
agacattttac	taaactttct	cttgaaaaaca	atgccccaaa	aagaacatta	gaagacacgt	8040
aagctcagtt	ggtctctgcc	actaagacca	gccaacagaa	gcttgatttt	attcaaactt	8100
tgcatttttar	catattttat	cttgaaaaat	tcaattgtgt	tgggtttttg	tttttggttg	8160
tattgaatag	actctcagaa	atccaattgt	tgagtaaato	ttctgggttt	tctaaccctt	8220
cttttagatgt	tacctgtgt	gaggaggcat	tcttcagggt	tgctgttctt	acaaagttaa	8280
cgctaactg	gcttagtgtc	ttggtagaca	atttgctctg	caccaaagta	aaaygcagaga	8340
gtgtagagag	gatraaacgg	caacacagct	cacaagaaca	gactttccag	ctgctgaagt	8400
trtggaaca	tcaaaacaaa	gaccaagata	tagtcaagaa	gatcatcaa	ggtatgatma	8460
tctaaaataa	aaagatcaat	cagaaatcaa	agacacctat	ttatcataaa	ccaggaacaa	8520
gactgcatgt	atgttttagtt	gtgtggatct	tgtttccctg	ttggaatcat	tggtggactg	8580
aaaaagtttc	cacctgataa	tgtagatgtg	attccacaaa	cagttataca	aggttttggt	8640
ctcacccctg	ctccccagtt	tccttgtaaa	gtatgttgaa	cactctaaga	gaagagaaat	8700
gcatttgaaag	gcagggtctg	atctcaggga	gtcgttcca	gatcccttaa	cgcttctgta	8760
agcagccctc	ctagaccacc	aaggagaagc	tctataacca	ctttgtatct	tacattgcac	8820
ctctaccaag	aagctctgtt	gtatttactt	ggtaattctc	tccaggtagg	cttttctgtag	8880
cttacaaaata	gttcttatt	aatcctcatg	aataggctg	cattaaaatt	attttaatgg	8940
catatgttat	gagaattaat	gagataaaat	ctgaaaagtg	tttgagcctc	ttgtaggaaa	9000
aagctagtta	cagcaaaatg	ttctcacatc	ttataagttt	atataaagat	tctccttttag	9060
aaatggtgtg	agagagaaac	agagagagat	agggagagaa	gtgtgaaaga	atctgaagaa	9120
aaggagtttc	atccagtgtg	gactgtaagc	tttacgacac	atgatggaaa	gagttctgac	9180
ttcagtaagc	attgggagga	catgctagaa	gaaaaaggaa	gaagagtttc	cataatgcag	9240
acaggggtcag	tgagaaattc	attcaggtcc	tcaccagtag	ttaaatgact	gtatagtctt	9300
gcactaccct	aaaaaacttc	aagtatctga	aaccggggca	acagatttta	ggagaccaac	9360

gtctttgaga	gctgattgct	tttgcttatg	caaagagtaa	acttttatgt	tttgagcaaa	9420
cctaaaagtat	tctttgaacg	tataattagc	cctgaagcgc	aaagaaaaga	gaaaatcaga	9480
gaccgttaga	attggaagca	accaaattcc	ctatttttata	aatgaggaca	ttttaaccca	9540
gaaagatgaa	ccgatttggc	ttagggctca	cagatactaa	gtgactcatg	tcattaatag	9600
aaatgttagt	tcctccctct	taggtttgta	ccctagctta	ttactgaaat	attctctagg	9660
ctgtgtgtct	ccttttagttc	ctcgacctca	tgtctttgag	ttttcagata	tcctcctcat	9720
ggaggtagtc	ctctgggtgct	atgtgtattc	tttaaaggct	agttacggca	attaacttat	9780
caactagcgc	ctactaatga	aactttgtat	tacaaagtag	ctaacttgaa	tactttcctt	9840
tttttctgaa	atgttatggg	ggtaatttct	caaacttttt	cttagaaaaac	tgagagtgat	9900
gtgtcttatt	ttctactggt	aattttcaaa	attaggagct	tcttccaaag	ttttgttgga	9960
tgccaaaaat	atatagcata	ttatcttatt	ataacaaaaa	atatttatct	cagttcttag	10020
aaataaatgg	tgtcacttaa	ctccctctca	aaagaaaagg	ttatcattga	aatataatta	10080
tgaaattctg	caagaacctt	ttgcctcacg	cttggtttat	gatggcattg	gatgaatata	10140
aatgatgtga	acacttatct	gggcttttgc	tttatgcaga	tattgacctc	tgtgaaaaca	10200
gcrtgcagcg	gcacattgga	catgctaacc	tcaccttcga	gcagcttcgt	agcttgatgg	10260
aaagcttacc	gggaaagaaa	gtgggagcag	aagacattga	aaaaacaata	aaggcatgca	10320
aaaccagtga	ccagatcctg	aaagctgctca	gtttgtggcg	aataaaaaat	ggcgaccaag	10380
acaccttgaa	gggcctaattg	cacgcactaa	agcactcaaa	gacgtaccac	tttccaaaaa	10440
ctgtcactca	gagtctaaag	aagaccatca	ggttccttca	cagcttcaca	atgtacaaat	10500
tgtatcagaa	gytattttta	gaaatgatag	gtaaccaggt	ccaatcagta	aaaataagct	10560
gcttataact	ggaaatggcc	attgagctgt	ttcctcacaa	ttggcgagat	cccatggatg	10620
agtaaaactgt	ttctcaggca	cttgaggctt	tcagtgatat	ctttctcatt	accagtgact	10680
aattttgcca	cagggtacta	aaagaaacta	tgatgtggag	aaaggactaa	catctcctcc	10740
aataaacccc	aaatggttaa	tccaactgtc	agatctggat	cgttatctac	tgactatatt	10800
ttcccttatt	actgcttgca	gtaattcaac	tggaaattaa	aaaaaaaaaa	ctagactcca	10860
ctgggcctta	ctaaatatgg	gaatgtctaa	cttaaatagc	tttgggattc	cagctatgct	10920
agaggctttt	attagaaagc	catatttttt	tctgtaaaaag	ttactaatat	atctgtaaca	10980
ctattacagt	attgctattt	atattcattc	agatataaga	tttgacata	ttatcatcct	11040
ataaagaaac	ggtatgactt	aatttttagaa	agaaaattat	attctgttta	ttatgacaaa	11100
tgaaagagaa	aatatatatt	tttaattggaa	agttttagtc	atttttctaa	taggtactgc	11160
catatttttc	tgtgtggagt	atttttataa	ttttatctgt	ataagctgta	atatcatttt	11220
atagaaaatg	cattatttag	tcaattgttt	aatgttgga	aacatatgaa	atataaatta	11280
tctgaatatt	agatgctctg	agaaattgaa	tgtaccttat	ttaaaagatt	ttatggtttt	11340
ataactatat	aaatgacatt	attaaagtgt	tcaaattatt	ttttattgct	ttctctgttg	11400
cttttatt						11408

<210> 2  
 <211> 1206  
 <212> DNA  
 <213> Homo sapiens

<400> 2						
atgaacaagt	tgctgtgctg	cgcgctcgtg	tttctggaca	tctccattaa	gtggaccacc	60
caggaaacgt	ttctccaaa	gtaccttcac	tatgaogaag	aaacctctca	tcagctgttg	120
tgtgacaaat	gtctccttg	tacctacct	aaacaacact	gtacagcaaa	gtggaagacc	180
gtgtgcgccc	cttgccctga	ccactactac	acagacagct	ggcacaccag	tgacgagtgt	240
ctatactgca	gccccgtgtg	caaggagctg	cagtaogtca	agcaggagtg	caatcgacc	300
cacaaccgcg	tgtgcgaatg	caagggaagg	cgctaccttg	agatagagtt	ctgcttgaaa	360
cataggagct	gccctccttg	atttggagtg	gtgcaagctg	gaaccccaga	gcgaaatata	420
gtttgcaaaa	gatgtccaga	tgggttcttc	tcaaagtaga	cgatcatctaa	agcacctgt	480
agaaaacaca	caaattgcag	tgtcttttgt	ctcctgctaa	ctcagaaagg	aaatgcaaca	540
cacgacaaca	tatgttccgg	aaacagtga	tcaactcaaa	aatgtggaat	agatgttacc	600
ctgtgtgagg	aggcattctt	caggtttgct	gttctactaa	agtttacgcc	taactggctt	660
agtgtcttgg	tagacaattt	gcctggcacc	aaagtaaacg	cagagagtgt	agagaggata	720
aaacggcaac	acagctcaca	agaacagact	ttccagctgc	tgaagttagt	gaaacatcaa	780
aacaaagacc	aagatatagt	caagaagatc	atccaagata	ttgacctctg	tgaaaacagc	840

```

gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa 900
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggcattgcaaa 960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac 1020
accttgaagg gcctaattgca cgcactaaag cactcaaaga cgtaccactt tcccaaaact 1080
gtcactcaga gtctaaagaa gaccatcagg ttctttcaca gcttcacaat gtacaaattg 1140
tatcagaagt tatttttaga aatgataggt aaccaggtcc aatcagtaaa aataagctgc 1200
ttataa 1206

```

```

<210> 3
<211> 401
<212> PRT
<213> Homo sapiens

```

```

<400> 3

```

```

Met Asn Lys Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile
1 5 10 15
Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp
20 25 30
Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr
35 40 45
Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro
50 55 60
Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys
65 70 75 80
Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu
85 90 95
Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr
100 105 110
Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe
115 120 125
Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg
130 135 140
Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys
145 150 155 160
Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys
165 170 175
Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr
180 185 190
Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg
195 200 205
Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val
210 215 220
Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile
225 230 235 240
Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu
245 250 255
Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln
260 265 270
Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala
275 280 285
Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly
290 295 300
Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys
305 310 315 320
Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn

```

20060704 14:04:00

Variable	Mean	SD	Min	Max
Age	35.2	12.5	18	65
Gender	50.0	0.0	0	1
Marital status	65.0	15.0	0	100
Education	12.5	1.5	9	16
Income	3500	1500	1000	8000
Health status	75.0	10.0	50	100
Stress level	60.0	20.0	30	90
Life satisfaction	70.0	15.0	40	100
Work satisfaction	65.0	18.0	35	100
Family satisfaction	72.0	12.0	45	100
Community satisfaction	68.0	16.0	38	100
Overall well-being	70.0	15.0	40	100
Physical health	75.0	10.0	50	100
Mental health	65.0	18.0	35	100
Social health	70.0	15.0	40	100
Emotional health	68.0	16.0	38	100
Environmental health	62.0	22.0	30	100
Healthcare access	78.0	8.0	60	100
Health insurance	85.0	5.0	70	100
Healthcare quality	72.0	12.0	45	100
Healthcare cost	60.0	20.0	30	100
Healthcare availability	75.0	10.0	50	100
Healthcare accessibility	70.0	15.0	40	100
Healthcare effectiveness	78.0	8.0	60	100
Healthcare safety	82.0	6.0	65	100
Healthcare equity	75.0	10.0	50	100
Healthcare transparency	70.0	15.0	40	100
Healthcare accountability	72.0	12.0	45	100
Healthcare integrity	75.0	10.0	50	100
Healthcare honesty	78.0	8.0	60	100
Healthcare openness	70.0	15.0	40	100
Healthcare communication	72.0	12.0	45	100
Healthcare collaboration	75.0	10.0	50	100
Healthcare partnership	78.0	8.0	60	100
Healthcare cooperation	70.0	15.0	40	100
Healthcare support	72.0	12.0	45	100
Healthcare assistance	75.0	10.0	50	100
Healthcare help	78.0	8.0	60	100
Healthcare aid	70.0	15.0	40	100
Healthcare relief	72.0	12.0	45	100
Healthcare comfort	75.0	10.0	50	100
Healthcare ease	78.0	8.0	60	100
Healthcare convenience	70.0	15.0	40	100
Healthcare simplicity	72.0	12.0	45	100
Healthcare clarity	75.0	10.0	50	100
Healthcare precision	78.0	8.0	60	100
Healthcare accuracy	70.0	15.0	40	100
Healthcare reliability	72.0	12.0	45	100
Healthcare consistency	75.0	10.0	50	100
Healthcare stability	78.0	8.0	60	100
Healthcare durability	70.0	15.0	40	100
Healthcare longevity	72.0	12.0	45	100
Healthcare sustainability	75.0	10.0	50	100
Healthcare viability	78.0	8.0	60	100
Healthcare feasibility	70.0	15.0	40	100
Healthcare practicality	72.0	12.0	45	100
Healthcare applicability	75.0	10.0	50	100
Healthcare adaptability	78.0	8.0	60	100
Healthcare flexibility	70.0	15.0	40	100
Healthcare versatility	72.0	12.0	45	100
Healthcare universality	75.0	10.0	50	100
Healthcare inclusivity	78.0	8.0	60	100
Healthcare accessibility	70.0	15.0	40	100
Healthcare availability	72.0	12.0	45	100
Healthcare effectiveness	75.0	10.0	50	100
Healthcare safety	78.0	8.0	60	100
Healthcare equity	70.0	15.0	40	100
Healthcare transparency	72.0	12.0	45	100
Healthcare accountability	75.0	10.0	50	100
Healthcare integrity	78.0	8.0	60	100
Healthcare honesty	70.0	15.0	40	100
Healthcare openness	72.0	12.0	45	100
Healthcare communication	75.0	10.0	50	100
Healthcare collaboration	78.0	8.0	60	100
Healthcare partnership	70.0	15.0	40	100
Healthcare cooperation	72.0	12.0	45	100
Healthcare support	75.0	10.0	50	100</

```
<210> 4
<211> 15
<212> DNA
<213> Homo sapiens
```

```
<210> 5
<211> 15
<212> DNA
<213> Homo sapiens
```

```
<210> 6
<211> 15
<212> DNA
<213> Homo sapiens
```

```
<210> 7
<211> 15
<212> DNA
<213> Homo sapiens
```

```
<210> 8
<211> 15
<212> DNA
<213> Homo sapiens
```

```
<210> 9
<211> 15
<212> DNA
<213> Homo sapiens
```



<400> 9	15
gggagaargc tccac	
<210> 10	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 10	15
ccttttamgc tgcaa	
<210> 11	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 11	15
gctggtaygt gtcaa	
<210> 12	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 12	15
aggaccaytg ctcat	
<210> 13	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 13	15
aacataayag tagca	
<210> 14	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 14	15
tattttcygt aggaa	
<210> 15	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 15	15
cattttarca tatttt	
<210> 16	
<211> 15	
<212> DNA	
<213> Homo sapiens	

<400> 16	15
aagtaaaygc agaga	
<210> 17	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 17	15
agaggatraa acggc	
<210> 18	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 18	15
tgaagttrtg gaaac	
<210> 19	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 19	15
gtatgatmat ctaaa	
<210> 20	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 20	15
aaacagcrtg cagcg	
<210> 21	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 21	15
tcagaagyta ttttt	
<210> 22	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 22	15
cgtcggatc ttgkc	
<210> 23	
<211> 15	
<212> DNA	
<213> Homo sapiens	

2050T0"4294400T

<400> 23 gagtccgatc cagmc	15
<210> 24 <211> 15 <212> DNA <213> Homo Sapiens	
<400> 24 cagacaccac cgcyc	15
<210> 25 <211> 15 <212> DNA <213> Homo sapiens	
<400> 25 gcgtgagggg tggrg	15
<210> 26 <211> 15 <212> DNA <213> Homo Sapiens	
<400> 26 cccacctccc tggkg	15
<210> 27 <211> 15 <212> DNA <213> Homo sapiens	
<400> 27 gcggaaagga tccmc	15
<210> 28 <211> 15 <212> DNA <213> Homo Sapiens	
<400> 28 ctgaaagcgt taayc	15
<210> 29 <211> 15 <212> DNA <213> Homo sapiens	
<400> 29 agaaagctcc aggrt	15
<210> 30 <211> 15 <212> DNA <213> Homo Sapiens	

<400> 30	15
taagtccttg ggcya	
<210> 31	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 31	15
gcacccgtcg gctr	
<210> 32	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 32	15
ccggcgggga gaarg	
<210> 33	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 33	15
gagcgagtgg agcyt	
<210> 34	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 34	15
gggtgtcctt ttamg	
<210> 35	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 35	15
ggaactttgc agckt	
<210> 36	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 36	15
gtgcaagctg gtayg	
<210> 37	
<211> 15	
<212> DNA	
<213> Homo sapiens	

<400> 37	15
tgacattga_cacrt	
<210> 38	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 38	15
ttccaaagga ccayt	
<210> 39	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 39	15
attcctctga gcart	
<210> 40	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 40	15
ttgtgcaaca taaya	
<210> 41	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 41	15
ttttactgct actrt	
<210> 42	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 42	15
gcttggtatt ttcyg	
<210> 43	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 43	15
ctgggggttcc tacrg	
<210> 44	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 44	

actttgcatt ttarc	15
<210> 45	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 45	15
aagataaaat atgyt	
<210> 46	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 46	15
gcaccaaagt aaayg	
<210> 47	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 47	15
ctacactctc tgcr	
<210> 48	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 48	15
gtgtagagag gatra	
<210> 49	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 49	15
tgtgttgccg tttta	
<210> 50	
<211> 15	
<212> DNA	
<213> Homo Sapiens	
<400> 50	15
agctgctgaa gttrt	
<210> 51	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 51	

tttgatgttt ccaya

15

<210> 52  
<211> 15  
<212> DNA  
<213> Homo Sapiens

<400> 52  
tccaaggtat gatma

15

<210> 53  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 53  
ttttatttta gatka

15

<210> 54  
<211> 15  
<212> DNA  
<213> Homo Sapiens

<400> 54  
ctgtgaaaac agcrt

15

<210> 55  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 55  
atgtgccgct gcayg

15

<210> 56  
<211> 15  
<212> DNA  
<213> Homo Sapiens

<400> 56  
attgtatcag aagyt

15

<210> 57  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 57  
atttctaaaa atarc

15

<210> 58  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 58  
cggatcttg

10

<210> 59	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 59	10
tccgatccag	
<210> 60	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 60	10
acaccaccgc	
<210> 61	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 61	10
tgaggggtgg	
<210> 62	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 62	10
acctccctgg	
<210> 63	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 63	10
gaaaggatcc	
<210> 64	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 64	10
aaagcgtaa	
<210> 65	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 65	10
aagctccagg	



<210> 66  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 66  
gtccctgggc 10

<210> 67  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 67  
cccgtcggct 10

<210> 68  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 68  
gcggggagaa 10

<210> 69  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 69  
cgagtggagc 10

<210> 70  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 70  
tgtcctttta 10

<210> 71  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 71  
actttgcagc 10

<210> 72  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 72  
caagctggta 10

<210> 73

```

<211> 10
<212> DNA
<213> Homo sapiens

<400> 73
acattgacac
10

<210> 74
<211> 10
<212> DNA
<213> Homo sapiens

<400> 74
caaaggacca
10

<210> 75
<211> 10
<212> DNA
<213> Homo sapiens

<400> 75
cctctgagca
10

<210> 76
<211> 10
<212> DNA
<213> Homo sapiens

<400> 76
tgcaacataa
10

<210> 77
<211> 10
<212> DNA
<213> Homo sapiens

<400> 77
tactgctact
10

<210> 78
<211> 10
<212> DNA
<213> Homo sapiens

<400> 78
tggtattttc
10

<210> 79
<211> 10
<212> DNA
<213> Homo sapiens

<400> 79
gggttcctac
10

<210> 80
<211> 10

```

<212> DNA  
<213> Homo sapiens

<400> 80  
ttgcatttta 10

<210> 81  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 81  
ataaaatatg 10

<210> 82  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 82  
ccaaagtaaa 10

<210> 83  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 83  
cactctctgc 10

<210> 84  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 84  
tagagaggat 10

<210> 85  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 85  
gttgccgttt 10

<210> 86  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 86  
tgctgaagtt 10

<210> 87  
<211> 10  
<212> DNA

<213> Homo sapiens

<400> 87  
gatgtttcca 10

<210> 88  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 88  
aaggtatgat 10

<210> 89  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 89  
tatttttagat 10

<210> 90  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 90  
tgaaaacagc 10

<210> 91  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 91  
tgccgctgca 10

<210> 92  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 92  
gtatcagaag 10

<210> 93  
<211> 10  
<212> DNA  
<213> Homo sapiens

<400> 93  
tctaaaaata 10

<210> 94  
 <211> 2280  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> allele  
 <222> (30)..(30)  
 <223> PS1: polymorphic base G or T

<220>  
 <221> misc\_feature  
 <222> (61)..(120)  
 <223> n's represent sequence between PS1 and PS2

<220>  
 <221> allele  
 <222> (150)..(150)  
 <223> PS2: polymorphic base C or T

<220>  
 <221> misc\_feature  
 <222> (181)..(240)  
 <223> n's represent sequence between PS2 and PS3

<220>  
 <221> allele  
 <222> (270)..(270)  
 <223> PS3: polymorphic base G or T

<220>  
 <221> misc\_feature  
 <222> (301)..(360)  
 <223> n's represent sequence between PS3 and PS4

<220>  
 <221> allele  
 <222> (390)..(390)  
 <223> PS4: polymorphic base T or C

<220>  
 <221> misc\_feature  
 <222> (421)..(480)  
 <223> n's represent sequence between PS4 and PS5

<220>  
 <221> allele

<222> (510)..(510)  
<223> PS5: polymorphic base G or C

<220>  
<221> misc\_feature  
<222> (541)..(600)  
<223> n's represent sequence between PS5 and PS6

<220>  
<221> allele  
<222> (630)..(630)  
<223> PS6: polymorphic base C or T

<220>  
<221> misc\_feature  
<222> (661)..(720)  
<223> n's represent sequence between PS6 and PS7

<220>  
<221> allele  
<222> (750)..(750)  
<223> PS7: polymorphic base G or A

<220>  
<221> misc\_feature  
<222> (781)..(840)  
<223> n's represent sequence between PS7 and PS8

<220>  
<221> allele  
<222> (870)..(870)  
<223> PS8: polymorphic base C or A

<220>  
<221> misc\_feature  
<222> (901)..(960)  
<223> n's represent sequence between PS8 and PS9

<220>  
<221> allele  
<222> (990)..(990)  
<223> PS9: polymorphic base C or T

<220>  
<221> misc\_feature  
<222> (1021)..(1080)  
<223> n's represent sequence between PS9 and PS10

<220>  
<221> allele  
<222> (1110)..(1110)  
<223> PS10: polymorphic base T or C

<220>  
<221> misc\_feature  
<222> (1141)..(1200)  
<223> n's represent sequence between PS10 and PS11

<220>  
<221> allele  
<222> (1230)..(1230)  
<223> PS11: polymorphic base T or C

<220>  
<221> misc\_feature  
<222> (1261)..(1320)  
<223> n's represent sequence between PS11 and PS12

<220>  
<221> allele  
<222> (1350)..(1350)  
<223> PS12: polymorphic base C or T

<220>  
<221> misc\_feature  
<222> (1381)..(1440)  
<223> n's represent sequence between PS12 and PS13

<220>  
<221> allele  
<222> (1470)..(1470)  
<223> PS13: polymorphic base G or A

<220>  
<221> misc\_feature  
<222> (1501)..(1560)  
<223> n's represent sequence between PS13 and PS14

<220>  
<221> allele  
<222> (1590)..(1590)  
<223> PS14: polymorphic base C or T

<220>  
<221> misc\_feature

<222> (1621)..(1680)  
 <223> 's represent sequence between PS14 and PS15  
  
 <220>  
 <221> allele  
 <222> (1710)..(1710)  
 <223> PS15: polymorphic base A or G  
  
 <220>  
 <221> misc\_feature  
 <222> (1741)..(1800)  
 <223> n's represent sequence between PS15 and PS16  
  
 <220>  
 <221> allele  
 <222> (1830)..(1830)  
 <223> PS16: polymorphic base A or G  
  
 <220>  
 <221> misc\_feature  
 <222> (1861)..(1920)  
 <223> n's represent sequence between PS16 and PS17  
  
 <220>  
 <221> allele  
 <222> (1950)..(1950)  
 <223> PS17: polymorphic base A or C  
  
 <220>  
 <221> misc\_feature  
 <222> (1981)..(2040)  
 <223> n's represent sequence between PS17 and PS18  
  
 <220>  
 <221> allele  
 <222> (2070)..(2070)  
 <223> PS18: polymorphic base G or A  
  
 <220>  
 <221> misc\_feature  
 <222> (2101)..(2160)  
 <223> n's represent sequence between PS18 and PS19  
  
 <220>  
 <221> allele  
 <222> (2190)..(2190)  
 <223> PS19: polymorphic base T or C  
  
 <220>  
 <221> misc\_feature  
 <222> (2221)..(2280)  
 <223> n's represent sequence 3' to PS19  
  
 <400> 94



ggacacactc	caactgcgtc	cggatcttgc	ctggatcgga	ctctcagggg	ggaggagaca	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
ctgctctccc	aggggacaga	caccacccgy	ccacccctca	cgccccacct	ccctggggga	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
gccccacccc	tcacgcccc	cctccctggk	ggatcctttc	cgccccagcc	ctgaaagcgt	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
cctttccgcc	ccagccctga	aagcgttaay	cctggagctt	tctgcacacc	ccccgaccgc	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
ctgagggttc	cggggaccac	aatgaacaas	ttgctgtget	gcgcgctcgt	ggtaagtccc	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	600
tgtcgcgcgc	tcgtggtaag	tcctggggcy	agccgacggg	tgcccggcgc	ctggggaggc	660
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	720
ccaacctccc	agcggaccgg	cggggagaar	gctccactcg	ctccctccca	ggagaggctt	780
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	840
tgccatgctt	cccctagggt	gtccttttam	gctgcaaagt	tcctgctgac	tttatggaag	900
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	960
tcctggattt	ggagtgggtc	aagctggtay	gtgtcaatgt	gcagcaaaat	taattaggat	1020
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1080
tatgtgtctg	gagtgtctcc	aaaggaccay	tgctcagagg	aatactttgc	cactacaggg	1140
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1200
tgaaaatgct	agagttttgt	gcaacataay	agtagcagta	aaaaccaagt	gaaaagtctt	1260
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1320
gagaagggtac	taaattgctt	ggtattttcy	gtaggaaccc	cagagcgaaa	tacagtttgc	1380
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1440
gcttgatttt	attcaaactt	tgcattttar	catattttat	cttggaataa	tcaattgtgt	1500
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1560
gtagacaatt	tgcttggcac	caaagtaaay	gcagagagtg	tagagaggat	aaaacggcaa	1620
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1680
aaagtaaacy	cagagagtgt	agagaggatr	aaacggcaac	acagctcaca	agaacagact	1740
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1800
caagaacaga	ctttccagct	gctgaagttr	tggaacatc	aaaacaaaga	ccaagatata	1860
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1920
atagtcaaga	agatcatcca	aggtatgatm	atctaaaata	aaaagatcaa	tcagaaatca	1980
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2040
atgcagatat	tgacctctgt	gaaaacagcr	tgacgcggca	cattggacat	gctaacctca	2100
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2160
gcttcacaat	gtacaaattg	tatcagaagy	tatttttaga	aatgataggt	aaccagggtcc	2220
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2280